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Warsaw Pact Ground Forces Reserve Systems

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An Intelligence Assessment

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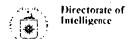
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Warsaw Pact Ground Forces Reserve Systems

An Intelligence Assessment

This paper was prepared by
Office of Soviet Analysis. Comments and queries are welcome and may be directed to the Chief. Theater forces Division, SOVA

This paper was coordinated with the National Intelligence Council and the Defense Intelligence Agency.

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Warsaw Pact Ground Forces Reserve Systems

Key Judgments

Information available as of 1 December 1982 was used in this report The Warsaw Pact depends on the mobilization of large numbers of reservists to prepare its ground forces for a major war. Its pool of reservists includes several million men—enough to fill out all existing units, to provide replacements for casualties, and to form additional units during a protracted war.

Because units filled out with reservists conduct little training in peacetime, we believe that they would be less effective after mobilization than units manned by trained conscripts.

peacetime training for individual

Pact reservists is inadequate to maintain their skills after active duty or to develop cohesion in units manned largely by reservists. The shortcomings in mobilized units can be overcome by additional training, as was done prior to the invasions of Czechoslovakia and Afghanistan, or the consequences of reduced unit effectiveness can be accepted in the face of an immediate threat, as was done during the early stages of World War II.

The need for reservists varies widely among Pact divisions, and these variations impose different constraints on mobilization in each region. In general, Pact divisions are manned in peacetime at higher strength opposite NATO's Central Region and China than in other regions. As a result, reservists are less critical to the Pact's ability to mobilize first-echelon divisions for operations against NATO's Central Region or China than for operations against potential enemies in other theaters. Reservists, however, are critical for subsequent operations in every theater.

On NATO's flanks and opposite Southwest Asia, reservists are the mainstay of Pact military capabilities. The Soviets might require several months to retrain reservists for major campaigns in these regions unless better prepared units were transferred from other theaters.

The Soviets have been reluctant to use reservists in limited operations. Only a small percentage of the Soviet troops that entered Czechoslovakia in 1968 were reservists, and trained conscripts replaced reservists in Afghanistan in 1980 before Soviet units were committed to offensive operations against the local insurgents. This reluctance to use reservists suggests that the Soviet military leadership has a relatively low opinion of their combat proficiency.

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Despite legal obligations for regular reserve duty, training for Pact-reservists is infrequent and superficial.

preservists are seldom called up more than once and that most of their reserve duty is devoted to tasks that do not improve military skills, such as maintaining equipment and harvesting crops. The most frequent type of actual training is an alert exercise that is intended to assure the Pact's ability to mobilize quickly but does not provide practical training in military skills.

In addition to the limited and erratic character of training for individual Pact reservists, the frequency of reserve training varies with the peacetime manning of the units, creating further distinctions in readiness among units. Generally, divisions that require few reservists conduct reserve training at least annually during fielded exercises. Divisions that depend heavily or completely on reservists only fill out a few subordinate units for training in a given year and usually mobilize completely only every five years to conduct an exercise.

Because of their role and training, non-Soviet Warsaw Pact (NSWP) reservists may be better prepared than Soviet reservists, and the units which depend on them may be more effective immediately after mobilization than comparable Soviet units. A large percentage of the NSWP divisions, particularly those opposite NATO's Central Region, are manned at high strength in peacetime and require relatively few reservists to mobilize. As the manpower available for conscription declines in the 1980s, however, the role of reservists in these countries may increase. East Germany, for example, regularly uses reservists to enhance the readiness of its active divisions and calls up these reservists for longer periods than any other Pact country. In 1982 the East Germans increased the cumulative obligation for reservists from 24 to 36 months.

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Warsaw Pact Ground Forces Reserve Systems	
The Mobilization System Manning and Conscription Practices Unlike the United States, which relies on organized Reserve and National Guard units to expand its armed forces in an emergency, the Soviets and their Pact allies maintain the base for wartime expansion retinarily in their active armed forces.	The regular influx of newly discharged conscripts into the Soviet reserve system coincides with a semiannual review of the mobilization system at the local level. In each unit the staff's mobilization component prepares detailed plans and determines the numbers and types of reservists required for mobilization.
nrimarily in their active armed forces. Pact units.	The local military commissariat is responsible for meeting these requirements; together with the unit's staff it reviews the roster of reservists every six months to make any necessary changes. Reservists
manned at varying levels in peacetime, provide the framework for rapidly integrating reservists upon mobilization. In peacetime, a primary function of Pact units is to train conscripts who, upon discharge, are incorporated into the pool of reserve manpower and are assigned to local active units for reserve	who are no longer available, for example, would be replaced by unassigned reservists with the same skills. If such reservists were not available, unassigned reservists would be called up and trained in the necessary skills.
training and mobilization.	
Unclassified Soviet writings have described the military commissariat system, and have reported on the interaction between military commissariats and military unit staffs. According to these sources, the General Staff's Organization-Mobilization Directorate has the overall responsibility for managing manpower for the Soviet Ground Forces. This directorate oversees the operations of mobilization components of division, army, and military district (MD) staffs and military commissariats (voyenkomaty) at the rayon, oblast, and republic levels within the governmental hierarchy (see figure 1). The military commissariats manage the induction of conscripts and maintain records on tens of millions of reservists who are theoretically available for mobiliza-	skills while reservists usually were from the Central Asian and Far Eastern republics former infantry and construction troops were most likely to be reclassified and retrained. In some instances, however, reclassification was merely a "paper" exercise. One from the Odessa MD, for example reclassified as a medic when called up for an exercise even though he was never trained in this specialty. It is not clear whether this is a widespread practice. The Soviet army requires large numbers of junior officers because they are placed in many positions noncommissioned officers usually would fill in West-
tion.	Soviet military schools do not graduate enough
The operations of this manpower system are largely determined by the Soviet conscription cycle. Soviet conscripts are inducted twice each year at which times approximately one-fourth of the conscripts in most Soviet units are replaced. This process involves the induction of several hundred thousand new conscripts each May and November and the subsequent release into the reserves of similar numbers of older conscripts who have completed two years of active duty. As a result, the vast majority of the Pacify adult	males have had some military training and are included in the reserves
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Figure 1 Soviet Organization for Conscription and Mobilization General Staff Oranica of More vice trollings. Military District Division change to earlier and an instance, Organic from Mon Craftle, Duplinting of Organization Man Republic Oblast Rayon Market Commission Marin Commission Martine Commission officers may be called up for reserve training and to professional officers each year to meet these needs. and the Soviet Ground Forces depend on reserve participate in periodic training courses and alerts officers to fill shortages. The manpower systems in the NSWP armies are based on the Soviet model. Our understanding of To provide the needed reserve officers, most Soviet males who attend universities or technical institutes. these systems is based on the respective national neist undergo military training. Their training often is defence laws as elaborated by unclassified writings Some differences designed to make use of their educational backgrounds. Thus, engineering students probably would do exist among the Pact armies; these differences are be trained as combat engineers and automotive engimost apparent in the terms of service and conscription neering students as maintenance officers. cycles. Active duty for conscripts is 18 months in upon the comple-East Germany and Hungary and 16 months in Romation of this training, the graduates are commissioned nia instead of the Pact standard of two years. Unlike as reserve officers, and their records are sent to the rest of the Pact, conscripts are inducted every Moscow to determine which will be called up for two eight months, instead of every six months, in Romayears of active duty. Usually less than 50 percent are called up within the first two years after graduation. The records of the remaining new reserve officers are sent to their local military commissariats. These

Table 1 Warsaw Pact Mobilization Authorities

Commercy	Administrative Level	Military Commands		
USSR	Republic oblast rayon	Mihtary District staff Mihtary Commissariat		
hast Germany	District (WBK) country (WKK)	Military District staff		
Poland	Province (WSZW) region (WKV)	Military District staff		
Czechoslovakia	County (OVS)	Military District staff		
Hungary	County replace- ment command	Army staff		
Bulgaria	District commu- nity military	Army staff Administration		
Romania	County infiltary center	Army staff		

Although economic factors certainly influence Soviet decisions on military manpower, the impact of national economic priorities is more apparent in some of the NSWP artifics. In Poland, Czechoslovakia, and Bulgaria, for example, those men eligible for conscription who instead choose to work for extended periods in dangerous industries, particularly in mining, are exempt from military service. This option, however, probably applies only to a small percentage of the men eligible for conscription in any of these countries

The Pact's reserve systems would continue to satisfy the military's need for manpower after existing units had been filled out and deployed. Classified Pact writings indicate that, during a protracted conflict, organization-mobilization staffs and military commissariats must provide personnel to replace casualties and man new units. The Soviet reserve system satisfied these needs during World War II but has not been tested since then

The Alerting Process

The only major changes in the Pact mobilization system over the past decade have been improvements in the means and procedures to control the transition to war. Classified Pact writings

indicate that the Soviets have exerted considerable pressure on their allies since the mid-1970s to increase force readiness, particularly to improve the alerting process. To satisfy Soviet demands, the NSWP countries during the late 1970s ratified a new Pact statute on stages of alert within units, and in 1981 they introduced new communication systems to integrate the NSWP general staffs into the Soviet strategic alert network. These changes have reduced the time required to alert all Pact forces and have streamlined the procedures to mobilize units
Pact norms governing each unit's initial response to an alert are stringent
Alerts are called frequently to test the capability of units and reservists to respond within the allotted time; however, the intent of such tests is usually circumvented by the participants. Commanding officers usually warn their subordinate units of an alert so that odvance preparations can be made to ensure satisfactory performances units would not have passed these tests without prior warning and special preparations. In the few instances of genuine surprise alerts units almost invariably have failed, and frequently the commanders have been replaced.
A recent US study of the alerting and mobilization process in Soviet divisions has questioned the ability of these units to meet demanding norms without advance warning. The ability to respond to an alert depends on peacetime manning; units that are manned at the lowest levels naturally require more

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Pact Alerting Systems

The alerting process is central to the Pact's concept of readiness and, ultimately, to the Pact's mobilization system. It includes the communication systems by which Pact commands alert subordinate forces and the procedures by which units mobilize. These procedures are intended to meet all military contingencies, including a surprise nuclear attack, and to enable all Soviet and NSWP commands to initiate the transition to war by ordering the deployment of units, the mobilization of reservists, and the necessary preparations for civil defense.

Analysis of classified Soviet writings. indicates that there are two levels of alerting systems within the Pact; strategic and operational. On the strategic level, the Soviet strategic warning network connects the Soviet General Staff to the commands of the Soviet military districts and groups of forces and to the NSWP general staffs. On the operational level, separate communication systems within each of the military districts, groups of forces, and NSWP armies permit the commanders to alert their subordinate units, military commissariats or their equivalents, and local civil defense authorities collectively or selectively. The Soviets and three of the NSWP armies - East Germany, Czechoslovakia, and Bulgaria have automated alerting systems that can alert all or selected units |Theremaining NSWP armies Poland, Hungary, and Romania -- use older equipment

time. Moreover, these norms apply to emergencies when the survival of the unit rather than its ability to fight is at stake. The systematic preparation of a unit for war would require much more time. A computer simulation indicates that mobilization could require from one and a half days in divisions that are at or

to alert all units

near full strength and up to 10 days in divisions that are not manned in peacetime. Even if one accepts these times, which are considerably longer than the stringent Pact norms of 30 to 60 minutes, the Pact can still deploy large numbers of divisions in a relatively short period.

despite problems, to assemble reservists quickly upon alert. This ability to mobilize quickly, however, does not guarantee immediately effective operations. The ability of most Pact divisions and nondivisional units (those directly subordinate to front and army commands) to use equipment effectively and to conduct complex operations depends on the numbers and types of reservists mobilized and their quality of training

The Role of Pact Reservists

The need for reservists varies widely among and within the Pact ground forces. The main factors that determine the role of reservists in Pact units are:

- · Peacetime manning.
- . Types of military skills

Peacetime Manning

man-

ning in Pact units ranges in a definable pattern from units that are at or near full strength to units that are not manned in peacetime. The Soviets broadly define their divisions as being "ready" or "not ready" for combat following mobilization according to their peacetime percentage of full-strength manning and according to associated variations in training. Ready divisions can initiate military operations immediately after mobilization; not-ready divisions require some training in order to operate effectively. Each category also includes several less formal subdivisions based on finer gradations of peacetime strength (see tables 2)

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Table 2 Warsaw Pact: Peacetime Manning Levels of Soviet Ground Divisions

Туре	Manning Level opercents	Number of Divisions	
Ready			
Lull Strength	95-100	40 %	
Reduced Strength I	70-85	22	
Reduced Strength II	55-70	32	
Not Ready			
High-Strength Cadre	25-40	19	
Low-Strength Cadre	5-25	52	
Mobilization Base	0	25	

^{*} Includes six airborne divisions

and 3). Although the NSWP armies do not use the ready not-ready designation, their units are also manned at differing levels in peacetime.

Differences in peacetime manning are also common among subunits within divisions, primarily in Soviet reduced-strength and cadre divisions and their NSWP equivalents, and they usually relate to the relative contribution of each subunit to the division's immediate combat readiness. Thus, combat elements in these divisions are usually manned at higher levels than

The three types of ready divisions are defined as full-strength ready, reduced-strength ready. It and reduced-strength ready. Hand are manned in peacetime between \$5 and 100 percent. Not-ready divisions are defined as high-strength cadre, low-strength cadre, and monilization-base divisions according to peacetime manning between 0 and 40 percent. The US Intelligence Community describes Soviet as well as NSWP ground divisions as Categories I, III, or III based on estimates of manning between 75 and 100 percent. 30 and 75 percent, and 10 and 50 percent, respectively Because mobilization-base divisions are not manned in peacetime, these are not included in the US categories of Pact ground divisions. Mobilization bases are depots for the major combat equipment needed to form a division. To field such a unit, additional vehicles sup to 1,000 tucks in some casts. must be requisitioned and 10,000 or more reservists called up.

support elements are	even
in reduced-strength Soviet divisions, as	n artillery regi-
ment might be manned at 50 percent.	for example.
while medical and chemical defense ur 10 to 15 percent.	nits might be at
Peacetime manning practices also detereservists are integrated into divisions	-

lindicates that tion. Our analysis Pact units commonly would either assign individual reservists directly to fill out high-strength units or activate entire units manned only with reservists. In the first case, individual reservists are usually assigned to positions requiring relatively little skill. For example, individual reservists are often assigned as ammunition carriers in artillery units or as additional riflemen in motorized rifle squads. These reservists are not essential to the unit's ability to operate, although they would add to the unit's endurance after it had sustained casualties. In the second case, units are mobilized primarily or completely from the reserves and require personnel with a full range of demanding as well as undemanding skills.

The type of unit determines the peacetime manning in the Pact's nondivisional units, and units of the same type usually are manned at similar levels throughout the Pact.

nondivisional surface-to-air and surface-to-surface missile units and signal units were manned at high strength in all Pact armies, while nondivisional artillery, engineer, and logistic units were manned at low levels.

Military Skills

The member countries of the Warsaw Pact have sufficient numbers of reservists who have served during the past two to five years to fill out all existing ground units. To mobilize these units, we estimate that the Soviets would need about two and a half million reservists and the NSWP countries more than

^{*} Includes one airborne training division

Table 3 Warsaw Pact: Peacetime Manning Levels of NSWP Ground Divisions

Expe	Manning Level percent	Number of Divisions	Fast German	Polish	Czechor slovak	Hungarian	Bulgarian	Romanian
Category I	75-100	3.3	6	10 %	4	3	, ·	-
Category II	50-75	12	O	3	3	1	2	;
Category III	10-50	10	0	2	3	?	3	O
Mebilization base	0	12	. 1	2	ì	0		Ð

· Includes one airborne and one sealanding division.

three-fourths of a million reservists (see table 4). We believe the Pact's reservist pool is large enough to sustain a mobilization on this scale, but the availability of reservists with particular skills is also important, and significant shortcomings exist here, especially in technical skills.

Combat Skills. In peacetime, Pact motorized rifle and tank units in divisions at each level of readiness are manned at higher strength than support elements, such as logistic and engineer units. This practice ensures that large numbers of infantrymen and tankers are discharged from active duty and become reservists each year. It also reduces the Pact's relative need for reserve infantrymen and tankers during mobilization and ensures that a large pool of reservists with these skills would still be available after filling up existing units to replace casualties and to form additional units during a protracted conflict.

The Soviets probably could satisfy their mobilization need for infantrymen and tankers with reservists who had served within the past two and a half to three years (see table 5). Some other Pact armies might be able to satisfy their need for these skills with reservists who had served within one year. (s)

Technical Skills. In order to satisfy their mobilization needs for reservists with technical skills, the Warsaw Pact countries would have to call up many reservists who would have had no active service in more than five years. Divisional and nondivisional support units are manned at very low levels or not at all in peacetime. Thus, the numbers of recently discharged reservists with these skills is small in comparison with the Pact's needs, while the importance of these technical personnel to the proper functioning of their units is high.

Both divisional and nondivisional artillery and engineer units are manned at low levels in peacetime. Relatively few artillerymen and engineers, therefore, are released into the reserves each year. In order to mobilize these units fully, artillery reservists who had been released more than six years earlier and engineer reservists who had been released more than five years earlier would be needed. More than half of the artillery reservists would be required for nondivisional units (see table 5).

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^{*} Free Bulgarian tank brigades are also considered Category I.

Three Romanian mountain infantry brigades, not included in this table, also are considered Category I.

Table 4
Warsaw Pact Ground Forces Reservists: Need and Availability

	Wartime Strength	Peacetime Strength	Reservists Needed	Reservists Available	With Active Service	
	Mengen	engen	***************************************	Within Two Years	Within Live Years	
USSR	4,330,000	1,830,000	2,500,000	1,460,000	000,004,0	
liast Germany	200,000	120,000	80,000	120,000	300,000	
Poland	650,000	240,000	410,000) "0,000	440,000	
Czechoslovakia	300,000	150,000	150,000	108,000	2"0,000	
Hungary	110,000	70,000	. 40,000	50,000	130,000	
Bulgaria	210,000	130,000	- 80,000	80,000	200,000	
Romania	210,000	170,000	50,000	Sendene	500,000	

medical units in all Pact armies are manned at very low levels in peacetime. To mobilize these units, Pact armies would have to call up virtually all available reservists who had any prior active service in this skill and probably would be forced to call up civilian medical personnel who had never served.

Regional Variations in Peacetime Readiness and Requirements for Reservists

The number of ready and not-ready divisions allocated to each theater is indicative of Soviet willingness or anwillingness to rely on reservists in different areas depending upon the likely threat and time available to prepare for war (see figure 2). The 82 ready divisions that do not rely heavily on reservists represent a disproportionate share of Soviet power. These divisions are equipped with more modern and more powerful weapons than are the not-ready divisions. This distinction in weapons is compounded by differences in the capabilities to use these weapons and to operate effectively as divisions. Ready divisions can operate effectively immediately: not-ready divisions must mobilize reservists and conduct additional training to achieve similar levels of proficiency.

Because of differences in equipment and training, we estimate that not-ready divisions would be one-fourth to one-third as effective as ready divisions before mobilization and one-half to three-fourths as effective after additional training. If all existing not-ready divisions were mobilized and trained, the total capabilities of Soviet ground divisions would more than double (see table 6). Because ready divisions are already at or near maximum effectiveness, their share of the increased Soviet power would fall. The average ready division, however, still would be more powerful than any individual not-ready division.

The concentration of ready divisions reflects Soviet perception of the military threat in each region and the time available to prepare for war. Thus, the Soviets have 60 of their 82 ready divisions opposite NATO's Central Region and China. As a result, the impact of reservists in these areas is less than in other regions. The Soviets would not undertake military operations in any theater without mobilizing not-ready divisions to ensure superiority and depth of forces over any potential enemy. The not-ready divisions in the western USSR, for example, would have a

Table 5	
Availability of Soviet Reservists	
With Recent Active Duty by Skill	

Sec. 2)	Years Since Active Duty Needed To Satisty Requirement
Lank	2.5
Intentry	3.1
Lagmeer	<:
Arutlery	6.8

On the basis that the Soviets mobilize reservists with the most recent active service, this table shows the maximum years that would have clapsed prior to mobilization since reservists in certain skills had served on active duty. Estimates of Soviet requirements for reservoits for these skills were made by comparing US assessments of the wartime and peacetime manning of these units. Calculations of wartime manning were based on the current order of battle and the tables of organization at full strength. Estimates of peacetime strength were based on our assessment of the peacetime manuag of these subunits in each category of Soviet divisions and the nondressional units. Forty percent of peacetime manning a that is, the personnel released during two conscription eveles after deducting the long-term service personnel - was assumed to equal the number or conscripts released into the reserves each year. Typically, Soviet units mobilize 10 to 15 percent more personnel than required during mobilization exercises to compensate for reservists who have no responded. Therefore, 90 percent of reservists were assumed to be available

major role in sustaining a campaign against NATO, according to Soviet writings and exercises. At least initially, some of these divisions might have less demanding missions, such as guarding lines of communications, which require minimal effectiveness and could be undertaken after mobilization with little additional preparation.

The Soviets may change the disposition of divisions after mobilization to improve their capabilities in some areas. For example, they could transfer ready divisions into a theater at the outset of an operation as they did during the invasion of Afghanistan. Indeed, they might be forced to transfer divisions into some areas. For example, the US Intelligence Community judges that Soviet forces in the Far Last would

require substantial reinforcements from outside the region to undertake a major campaign in China.

The Western Theater. The 35 ready divisions in the Western Theater, the only area in which ready divisions outnumber not-ready divisions, provide most of Soviet military capabilities against NATO's Central Region. These divisions constitute 82 percent of the assessed potential effectiveness of the 64 Soviet divisions in this theater at mobilization. The impact of reservists in this area would increase after the initial stages of war with NATO when not-ready divisions would be committed for subsequent operations.

Major deficiencies in equipment and training complicate comparisons between Soviet and NSWP divisions and among the NSWP ground forces. Of the 67 NSWP divisions, 43 nominally are manned and trained as ready units. Because the modernization of Soviet Ground Forces outstripped the NSWP, these divisions are less powerful than their Soviet counterparts. This distinction is further compounded by less intense training in NSWP divisions. In the most extreme cases, the Romanian ready divisions are equipped and trained at levels comparable to Soviet not-ready divisions.

The Far Eastern Theater. The disposition of Soviet forces along the Sino-Soviet border demonstrates the importance of ready divisions. The 25 ready divisions in this area represent 72 percent of the capabilities of the total 52 Soviet divisions in the theater. The ready divisions would delay any Chinese incursion while remaining divisions mobilized. The Soviets probably would use the not-ready divisions at reduced levels of effectiveness to repulse Chinese forces but would provide additional training before offensive operations

tions.

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Table 6
Regional Impact of Soviet Ground
Division Mobilization

	Divisions	ns Share of Pote Combat Effec at Mobilization **percent**		ectiveness	Share of Potential Combat Effectiveness After Training Opercents	
	Ready	Not Ready	Ready	Not Ready	Ready	Not Ready
Total force	82	128	71	29	47	53
Western Theater	35	29	82	18	16	39
Far Eastern Theater	25	32	72	28	50	50
Southeastern Theater	9	22	58	13	35	6.5
Southwestern Theater	6	22	52	48	26	74
Northwestern Theater	4	7	71	29	47	53
Strategic Reserves	3	16	40	60	19	*I

The relatively sparse population in the Far Eastern Theater may also increase the importance of individual reservists for mobilization

an absolute shortage of reservists in the Transbaikal MD was overcome by assigning reservists from the Far Eastern Theater might require additional troops conscripts and reservists—from the western USSR to satisfy their needs for manpower during a protracted campaign in China

Other Theaters. In other theaters, the impact of reservists on Soviet military capabilities is much larger. Not-ready divisions predominate on NATO's flanks, opposite Southwest Asia, and in the interior of the Soviet Union. The Soviets could initiate limited offensive operations in these areas with the few available ready divisions in each theater. In order to ensure superiority over enemy forces and to sustain a campaign, however, they must mobilize reservists and train not-ready divisions. In the Leningrad MD, for

example, only four of 11 divisions are assessed as ready. For an invasion of Norway, the Soviets would need additional divisions to ensure superiority over NATO reinforcements as well as Norwegian units and to guard the lines of communication over difficult terrain.

Training for Reservists

Pact reserve training responds to the needs of individual units rather than the legal obligations of individual reservists. Despite nominally stringent legal obligations, analysis indicates that training for the average Pact reservist is infrequent and superficial. The average reservist is rarely called up. When he is, he devotes almost half his time to activities that do not improve his military skills, such as maintaining equipment and harvesting crops. The

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frequency and amount of reserve training also vary considerably among Pact armies. Our analysis of training for Pact reservists indicates that the Soviets provide more total training for reservists than most of their albes do, but Poland, Czechoslovakia, and Haneary conduct more frequent training. Factors in Training of Reservists The unit's need for particular military skills largely determines the type and frequency of reserve training. An analysis of Soviet manning practices indicates that a large number of reservists with logistic and support skills would be required upon mobilization. Reservists	maximum of three months in any year, while the obligations of the oldest reservists—that is, those in Category II or III—usually are limited to a single callup for up to one month. The sole exception to this rule is Czechoslovakia, which limits the legal obligation for all reservists to one month every three years. Pact national defense laws, except in Bulgaria and Romania, set maximum cumulative obligations for reserve training. In a crisis, however, these laws permit the national military commands to extend the callup of any reservist beyond the legal maximum. Moreover, brief periods of reserve duty, such as aftert exercises, are not counted as part of a reservist's
with these skills fre-	fulfillment of his legal obligation.
cuently perform the same or similar functions in civilian life. Thus, their civilian occupations reinforce their military skills and reduce or eliminate the need for additional military training. Reservists with uniquely military skills, such as operating weapons constitute a smaller proportion of those required upon mobilization. These skills, however, deteriorate after active duty and must be reinforced periodically with additional training if the proficiency achieved on active duty is to be maintained. Legal Obligations of Reservists The legal obligations for training by individual Pact	the Czechoslovak national authorities land probably those in other NSWP countries) set annual ceilings on reserve training and schedule it to reduce the impact of absent workers on the civilian economy. The legal obligations of reserve officers in most Pact armies are greater than these of enlisted men. In addition to callups, officers are annually subject to lectures or training courses conducted by local military commissariats or their NSWP equivalents or by military units.
reservists are determined by the national defense laws	Training of Pact Reservists
that are based broadly on the 1967 Soviet Defense	A statistical analysis
Law. The Soviets divide reservists into two categories—more or less than one year of active service and further subdivide these into three classes by age. Generally, reservists who have served two years on active duty and who are between 18 and 35 years old constitute the primary source of manpower for mobilization and have the greatest obligation for additional training. The NSWP categories for reservists, however, are based solely on age.	indicates substantial differences in the frequency and duration of reserve training among the Pact ground forces (see table 8). With the exception of Czechoslovakia, training does not correspond to statutory obligations. In actuality, training is infrequent and superficial for most Pact reservists.
The maximum amount of time a reservist must spend in training depends on his category and the Pact country in which he lives (see table 7). The youngest reservists—that is, those in Category I—may be called up in most Pact armies generally up to a	

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Table 7	
Warsaw Pact:	
Active Duty Obligations of Pact Rese	rict

	linlisted		Officers	
	Hach Obligation	Constative Maximum Obligation	Each Obligation	Cumulative Maximum Obligation
USSR	Up to 3 months per year	24 months	Up to 3 months every 3 years	24 months
Fast Germany	Up to 3 months per year	36 months +	Up to 3 months per year	36 months
Poland	Up to 3 months per year	18 months	Up to 3 months per year	24 months
Czechoslovakia	Up to 1 month every 3 years	4 months	Up to 1 month every 3 years	5 months
Hungary	Up to 3 months every 3 years	18 months	Up to 4 months every 3 years	24 months
Bulgaria	Up to 3 months every 3 years	None	Up to 3 months every 3 years	None
Romania	Up to 3 months every year	None	Up to 3 months every year	None

Increased from 24 months in March 1982.

Despite differences in frequency and duration of reserve training, certain general patterns appear to be common among the USSR, Poland, Hungary, Craphacharakia, and Engl Garmania.

Czechosłovakia, and East Germany:

- Reservists are rarely called up until at least three years after active duty.
- Reserve officers are called up more frequently than enlisted men.
- Most reservists are only called up once. The small proportion of reservists who are called up more than once are likely to be called up frequently but for brief periods (see table 9).

A comparison of reports indicates that many of the differences in reserve training practices among Pact armies reflect different national concepts of the role of reservists. The East Germans, for example, use reservists in active units in peacetime to maintain higher levels of combat readiness during and after troop rotation. To achieve this goal, East German reservists are called up for the longer periods but less frequently than any other Pact reservists. East Germany's reliance on reservists may be increasing to compensate for fewer young men available for conscription. In March 1982 East Germany extended the

maximum cumulative obligation for reserve training from 24 to 36 months. As the manpower available for conscription declines in the 1980s, other members of the Pact also may change their defense laws

To maintain cohesion and proficiency, the Poles assign reservists to the same units for long periods, often five years or more, and call them up frequently for short periods of refresher training. Polish reservists are more likely than other Pact reservists to be called up repeatedly. The Hungarians also use reservists to support field training by active units and consequently call them up frequently for short periods.

The Czechoslovaks, who have the lowest legal obligation of all Pact members for reserve training, call up reservists to support field exercises about four years after their active duty

reservists frequently are called up to guard garrisons while the active unit conducts field exercises. No training is conducted for reservists during this period.

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Table 8 Warsaw Pact: Selected Reserve Training

	USSR		Hungary		hast Germany	Pound (Ail Ranks)	Czechoslovik i A TRinko
	Officers	Enlisted Men	Onficers	Enlisted Men	(A) Ranks	, 111 Nada	
Average freedeses of call tips	10	1.2	· :	15	1.1	1.6	1.4
I tal number of days or reserve duty	:-	44		3 *	-,	ł:	÷-
hoters is in years but seen active duty and pirst callup	: :	4 %	3.2	41.	6.4	÷ 13	4 5

Hungarian reserve officers usually serve on active duty for 11 months as officer candidates before entering universities or technical institute, and fiften to seven months after graduation. This practice increases the number and duration of callups for Hungarian reserve officers in comparison to those of other Pactarintes. The Romanian April 2003, inducts framing for reserve officers in two phases.

Only a small fraction of the average reservist's time during callups is devoted to training. We calculated figures on the basis of the Soviet sample for officers and enlisted men (see table 10). The average Soviet enlisted reservist spends 54 percent of his reserve duty maintaining vehicles or harvesting crops and only 16 percent of his time in practical training or field exercises. The average Soviet reserve officer spends his reserve duty primarily in lectures and theoretical instruction rather than in practical training or field exercises.

Report from different parts of the USSR also indicate some tentative regional differences:

- Reservists are more likely to be called up repeatedly in the Far hast, particularly in Transbaikal, than in other military districts.
- Reservists in the Transbackal and Central Asian MDs are more likely to be called up for training in new skills.

•	Reservist training is more likely to be perfunctory in the southern USSR than elsewhere
	these military districts frequently callups for one day solely to familiarize reservists with their mobilization assignments.
•	certain skills, particularly drivers,

Reserve Training Patterns

frequent callups.

Reserve training in units is conducted regularly, although the frequency of training varies by manning and type of unit reservists are called up for various kinds of training:

Refresher training and field exercises.

engineers, and doctors, were more likely

- Lectures and classroom instruction.
- · Alert and mobilization exercises.
- Labor.

Refresher training and field exercises are the most effective methods of maintaining reservists' skills

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Table 9 Selected NSWP Reserve Training a

	Hungary	Hungary		Poland (All Ranks)	Czechoslovakia (Alt Ranks)
	Officers	Other Ranks	_ (All Ranks)	Can Kankyi	ran Kanksi
Number of callups	1	. 1	i	1	1
Iotal days on reserve duty	42	;~	90	20	28
Interval between active duty and first callup in years	3.5	3	6.3	4.6	3.8
Days in first callup	12	10	60	14	28
Interval between first and second collapsing cars	5	1.3	.5	2.6%	3.8
Days on second callup	2	¥	60	10	2"

In all cases, data represent statistical medians,

Training Within Soviet Divisions.	times each year and integrated these reservists into
every division mobilizes	subunits for refresher training. Other nondivisional
at least once every five years for a general inspection.	units which rely on reservists conduct less frequent
Ready divisions call up reservists for subordinate	training Kiev M
regiments once or twice a year to support field	army headquarters unit called up
exercises. Some of these callups, however, may only	reservists only every five years.
involve small numbers of reservists. Analysis of re-	
serve training in the subordinate units of not-ready	Training in NSWP Divisions. Distinctions noted in
divisions over the past decade indicates a different	the frequency of reserve training in Soviet ready and
pattern of activity (see table 11). Tank, artiflery, and	not-ready divisions are also evident in NSWP divi-
engineer regiments in these divisions apparently call	sions at comparable levels of manning. Similarities i
up sufficient reservists once or twice each year to train	manning practices and training cycles among all Pag
about one battalion. Reserve training rotates each	members tend to lead to similarities in reserve train-
year among the three motorized rifle regiments	ing practices. In addition, reserve training must also
(MRRs) of a not-ready motorized rifle division. The	meet the requirement of joint training by Pact units
MRR conducting training during a particular year	
mobilizes enough reservists to conduct field training	
with at least one of its battalions. The three MRRs	Bulgaria and Romania conduct annual regional mob
only mobilize at the same time every fifth year during	lization exercises each spring. As many as 10,000
the division's general inspection.	reservists may be called up during these exercises, but
<u> </u>	we do not know how these reservists are distributed
Training in Soviet Nondivisional Units. Refresher	among units.
training is conducted annually by at least one subunit	
in each nondivisional artillery and engineer unit.	
units called up small numbers of reservists several	

Table 10 Tasks for Soviet Reservi	ists	Percent	Table 11 Frequency of Res in Soviet Division		
	Officers	Enlisted Men	Typ	Ready Divisions	Not-Ready Divisions
Transport and vehicle maintenance	14	к	Motorized rifle regement	I to 2 times per year?	2 times in 5 years
Harvest support and mental labor	O	<u>.</u> 4	Tank regiment	1 to 2 times per year *	1 to 2 times per year
Weapons training undividual and crew)	10	12	Artillery regiment	2 times per year 1 time each year	2 times per year I time each year
field training	3	4			
f le cream instruence or lecture	ני	21	Oxes not include divisions that are not manned in peacetime. Training in these units only requires small numbers of reservis Except during a division's general inspection, training in other u- usually involves only sufficient reservists to field from one comp-		numbers of reservists.
Alert or muster	1	1			field from one company
			up to one buttalion.		
conduct frequent training for reservists assigned to their mobilization-base divisions. There is no information on reserve training in similar divisions in any other NSWP army The East German experience in the early 1970s demonstrated the impact of infrequent training on the effectiveness of mobilization-base divisions. In the early 1970s, the East German mobilization-base divisions, which are colocated with military schools, conducted reserve training every five years. A mobilization and field training exercise in one of these divisions in 1971, however, demonstrated this practice's shortcomings. In the exercise, the reservists were unable to perform effectively until the active cadre intervened. The East German authorities concluded that these divisions would require at least one month of training after mobilization to operate effectively To reduce the need for postmobilization training, reserve training in these East German divisions has increased substantially since the 1971 exercise.		Reserve training is also conducted frequently in the two Polish mobilization-base divisions. Polish interna security regiments are the active cadres for these divisions and supervise the training of reservists assigned to the units. in these divisions low-level reserve training was conducted several times each year. These divisions conduct full mobilization exercises every five years, but they occasionally mobilize one regiment for field training with active Polish units lone of tiese divisions performed better than some active Polish units during an exercise in the early 1970s Implications Reliance on reservists creates a corresponding demand for regular, effective training. The preceding analysis indicates that peacetime reserve training in most Pact units is inadequate to maintain the profi-			
the associa	ted military	schools now train	creacy of marriag	ar reservists of th	e effectiveness of

not-ready divisions. If training is irregular or ineffective, the potential effectiveness of units that rely on reservists will be reduced substantially. In the extreme case, such units might not be able to function immediately after mobilization.
tive, the potential effectiveness of units that rely on reservists will be reduced substantially. In the extreme case, such units might not be able to function invaded Afghanistan. Despite these preparations,
reservists will be reduced substantially. In the extreme case, such units might not be able to function invaded Afghanistan. Despite these preparations,
treme case, such units might not be able to function invaded Afghanistan. Despite these preparations,
relied primarily on units manned by conscripts and
Through extensive testing, the US Army has deter-
mined that these factors are critical in learning and
retaining military skills: complexity of the task and In each case, some not-ready divisions had difficulties
the method and frequency of training. The more steps mobilizing and retraining reservists. The problems
required to accomplish a task, the more time required that emerged did not prevent mobilization because the
to master it. Training must include practical experi-
ence as well as theoretical instruction, and this practi-
cal training must be repeated frequently to maintain representative of the typical not-ready division. If the
established levels of proficiency. According to US Soviets had been forced to respond to an attack.
Army Expending sts who have studied the learning however, some of these divisions would not have been
process in US troops, the rate at which proficiency able to respond and the ability of other units to
deteriorates varies among individuals, but the greatest operate effectively would have been impaired
loss of proficiency generally occurs within the first
year after training. The Imasion of Czechoslovakia
The alternative to the potentially wasteful investment the Soviets began to prepare units in
required to maintain reservists' skills at high levels of Eastern Europe and the western USSR to invade
proficiency is to retrain only when necessary, US Czechoslovakia in the late spring of 1968 when
Army tests have demonstrated that skills, once negotiations with the Czechoslovak Government
learned, can be relearned quickly. Paet military plan- failed to reverse the political reforms made. Despite
ners apparently use this factor in reserve training. this systematic training of not-ready divisions
Thus, after two weeks or less of refresher training. they were
Pact reservists often held in reserve. Only Soviet ready divisions crossed
performed satisfactorily during field training ever-
cises. They were expected to perform only a few tasks, began.
such as constructing a pontoon bridge, and only these
tasks were undertaken during training. The Pact invasion of Czechoslovakia is the only
example of joint military operations by Pact units in a crisis. In contrast to the deliberate preparations in
The Role of Pact Reservists in Crises Soviet units, the NSWP contingents conducted little.
if any, additional training
The role played by Soviet reservists during erises over the Polish division that entered Czecho-
the past 15 years probably reflects the Soviet mili-slovakia had recently failed an inspection, and
tary's assessment of them. They were mobilized prior at least one of the
to the invasions of Czechoslovakia in August 1968 Hungarian units was committed with newly arrived.
and Afghanistan in December 1979 untrained conscripts. The training that had been
conducted in NSWP units was typical of peacetime
in each case, the Soviets conducted deliberate prepa-
rations and retrained their reservists systematically
over several months. Training for reservists in not-

ready divisions in the western USSR began roughly

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military operation.	addition to these preparations, one not-ready division
the Bulgarian unit that participated required several	and several nondivisional support units in the Central
weeks of training in the USSR under Soviet supervi-	Asian MD were mobilized in December 1979 on the
son before the invasion.	eve of the invasion. The nondivisional support units
	were committed immediately when the Central Asian
The preparations conducted in ready and not-ready	division moved into Afghanistan in March 1980
Societ divisions in the USSR differed markedly.	
ready divisions	
integrated individual	Soviet preparations for military contingencies in No-
reservists into subunits and conducted individual and	ghanistan occurred in two phases.
small unit training	several hot-ready divisions were mobilized in
not-ready divisions, on the other hand	
systematically retrained reservists by	March 1979 in response to the death of Soviet
	advisers in Herat. As the immediate crisis passed, the
sending them to individual refresher training as well	Soviets began to apprade manning and training in two
as through divisional field exercises. These final field	not-ready divisions in the Turkestan MD. To provide
exercises apparently were used by MD staffs before	this additional manpower, an unscheduled, limited
the invasion to evaluate the effectiveness of training	conscription was conducted in the western USSR in
and probably to certify these units as fit for commit-	July, and a compressed training program was intro-
ment.	duced in these units. Training continued even after
	the divisions had entered. Afghanistan and established
Despite such length's preparations, the training in not-	base camps. Before the units were committed to
ready divisions was not always adequate.	combat against the Afghan insurgents in early 1980.
the 59th	the reservists in these divisions were replaced by
Guards Motorized Rifle Division, a not-ready unit in	conscripts.
the Odessa MD, in July 1968. Despite more than a	,
month of training, the MD commander considered the	The preparations for the invasion exposed several
dussion's performance unsatisfactory during a week-	deficiencies in the Soviet reserve system. These prob-
long field exercise and ordered the unit to conduct	lens did not prevent the Soviets from committing
additional training. Widespread illness among the	prits or from achieving their initial goals, but they did
reservists prevented further training, but the division	prolong preparations and raise doubts about the others
was kept in its training area until Soviet forces had	tiveness of some units. These
established control in Czechoslovakia. Similarly, a	problems were.
several months of	,
chaotic and meffective training for reservists in	Poor matches of reservists' skills with mot regume-
a not-ready division in the Carpathian MD.	ments. Many of the reservists called up for one tank
during this period. Like the division in the Odessa	regiment had been tank commanders on active duty
MD [Jid not participate in the final invasion]	but were assigned as tank drivers upon mobilization
	the west assigned as talk affects 6,45 appenient
The Invasion of Afghanistan	and the formation of the second section of the
The invasion of Afghanistan demonstrated that the	Lack of familiarity with available equipment. Some
Soviets were willing to mobilize and commit not-ready	reservists were called up as drivers for armored
units if the situation demanded immediate action.	personnel carriers, but they had never driven the
The state of the s	older models that were in these units.
Larkestan and Central Asian MDs during 1979	
military preparations in divisions	
a deliberate	
Soviet buildup in Turkestan during that period. In	
more contour in Eurice State anding start period. It.	

Ethnic reliability. Many of the Central Asian reservists who were mobilized in March 1979 were replaced by Slavic conscripts in July. In addition, Central Asians and ethnic German reservists who did participate in the invasion were replaced by conscripts in early 1980. At that time there were reports that the reservists had "dishonored" themselves in Afghanistan when the one not-ready division in the Central Asian MD conducted its emergency mobilization on the eye of the invasion, many reservists did not report as ordered and	Implications On two occasions when the Soviets have invaded bordering countries, problems have emerged in their
bribed medical authorities to provide excuses. • Poor training	reserve system. They were able, nevertheless, to commit units and to achieve their initial objectives. Each time, however, the initial Soviet successes depended on the quality of available ready divisions. Although the Soviets provided extensive retraining for reservists before each operation, when they finally committed their forces, the role of reservists was limited. Thus, they demonstrated a clear preference for using ready units manned by conscripts. The ability of the reserve system and postmobilization training to prepare not ready divisions for a major crisis has not been tested fully
the frequency of alert exercises by military commis- sariats in this area has increased markedly	Conclusions
	The relative contribution of reservists to Soviet and NSWP ground forces places different constraints on the Pact's capability to prepare for war in each region Reservists have little impact on the Pact's ability to mobilize first-echelon divisions quickly opposite NATO's Central Region and along the Sino-Soviet border. They would, however, have a much greater impact on its ability to bring up the large second-echelon forces that Pact writings indicate would be needed to defeat NATO or China. Similarly, many of the NSWP divisions in the Western Theater rely less on reservists than NSWP divisions in the Southwestern Theater do. Opposite NATO's flanks and Southwest Asia, on the other hand, reservists are the mainstay of Soviet ground
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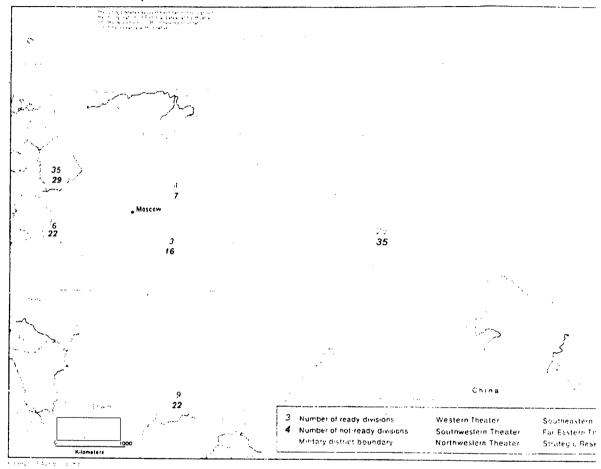
forces. This dependence limits Soviet capabilities to undertake major campaigns without lengthy preparations in existing units or transferring some ready units from the other regions.

The primary goal of the Pact's reserve systems is to mobilize quickly. The system is well organized and is tested frequently. Despite the reservists' frequent training, however, problems usually have emerged during genuine surprise tests and actual crises. The problems would not prevent mobilization, but some units, particularly not-ready divisions and nondivisional units, would require more time to complete preparations than Pact norms for alert allow.

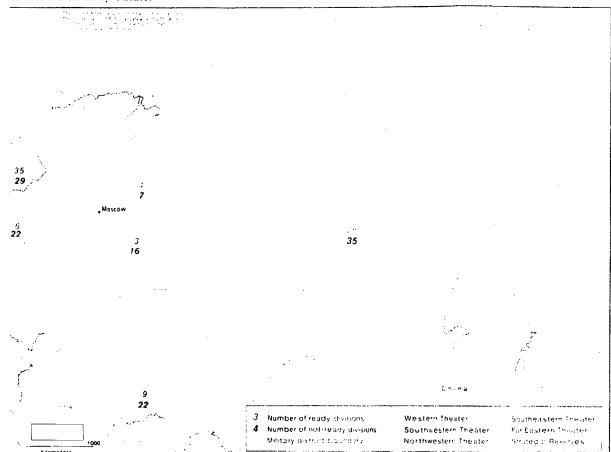
The infrequent nature and poor training for Pact reservists after their active service emphasizes the need for training in units after mobilization. Thus, the Soviets' apparent reluctance to use reservists in Czechoslovakia and Afghanistan may reflect their assessment of the relative proficiency of conscripts and reservists. In these limited operations, the Soviets were able to rely on conscripts. Given the preponderance of low-strength units, the Soviets would have little choice but to rely on reservists and to provide them the necessary training in not-ready units before undertaking major operations against NATO or China

The Soviets and their allies are becoming increasingly dependent on reservists for wartime expansion of their armed forces because they are continuing to increase the numbers of low-strength and mobilization-base divisions in their force structure. These new divisions are for the most part equipped with surplus, aging weapons handed down by the more ready divisions that are being modernized with new gear. This process is creating a large mobilizable reserve force consistent with Soviet doctrine—and World War II experience—which teaches that the High Command must be able to generate massive reserve forces to ensure a sustained successful war effort.

Figure 2 Soviet Ground Divisions by Theater



2 Ground Divisions by Theater



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